

WELDER

Purpose:

Fabricate, cut, join, and repair metal items.

Functions:

1. Fabricate, cut, join, and repair metal items.
 - * A. Read and interpret blueprints, drawings, plans, patterns, and specifications.
 - * B. Cut metal items using various methods, such as band saws, hack saws, hand and power shears and snips, gas torch and plasma cutting equipment, etc.
 - * C. Grind, shape, and form metal items to size and shape necessary, to allow for finished weld bead and bead penetration, and to clean up the finished part.
 - * D. Join metal items using various methods and equipment, such as gas torch welder, stick electrode welder, wire feed welder, tungsten inert gas welder, plasma welder, etc.
 - * E. Repair cracked and broken components using methods and equipment such as those listed above.
 - * F. Disassemble and reassemble equipment to reach and repair component parts as listed above.
 - * G. Clean metal parts by brushing, blasting, chemical application, etc.
 - * H. Inspect vehicles to determine repairs necessary and to verify proper finished repair and road worthiness in accordance with DOT requirements.
2. Maintain vehicle pulled trailers.
 - * A. Repair trailers using methods and practices such as those listed above.
 - * B. Test and repair trailer lighting systems.
 - * C. Test and repair trailer braking systems.
 - * D. Inspect trailers to determine repairs necessary and to verify proper finished repair and road worthiness in accordance with DOT requirements.
3. Perform related duties.
 - * A. Move equipment into and out of the shop for repair.
 - * B. Operate repair vehicle with mobile welding equipment.
 - * C. Design patterns and modify equipment to increase functionally.
 - * D. Maintain tools, welders, equipment, and the assigned work area.
 - * E. Advise on the selection and purchase of necessary tools, materials, and equipment.
 - * F. Follow all relevant safety practices and guidelines.
 - * G. Maintain an adequate inventory of supplies and materials for operations assigned.
 - * H. Maintain a current body of knowledge concerning products and methods for joining metals.

Minimum Qualifications:

Education & Experience

- ◆ A. Successful completion of a certified welding program either through an employer and/or an educational institution
- ◆ B. Three years of full-time experience in fabricating, cutting, and joining metal items.

License

- ◆ A. Possession of a valid Minnesota Driver's License or equivalent
- B. A Commercial driver's license is preferred

Knowledge

- ◆ A. Extensive knowledge of the properties of various metals.
- ◆ B. Extensive knowledge of the tools, materials, and techniques of welding.
- C. Knowledge of low voltage vehicle wiring and electrical systems and their repair.
- D. Knowledge of vehicle braking systems, both hydraulic and air.
- ◆ E. Knowledge of basic math including addition, subtraction, multiplication, and division.

Skills

- ◆ A Skill at welding using electric arc welder, both AC and DC, and in various positions
- ◆ B. Skill at welding and cutting using oxygen/acetylene gas equipment
- ◆ C. Skill at welding using metal/inert gas equipment
- ◆ D. Skill at reading blueprints, drawings, plans, and patterns

Abilities

- ◆ A. Ability to weld using various processes and equipment.
- ◆ B. Ability to drive various items of equipment into and out of the shop for repair.
- ◆ C. Ability to use tools for disassembly and reassembly of equipment.
- ◆ D. Ability to layout and fabricate equipment modifications.
- E. Ability to repair vehicle electrical lighting systems.
- F. Ability to repair vehicle braking systems.

Physical Abilities

- ◆ A. Ability to work outdoors in inclement weather
- ◆ B. Ability to work from ladders, scaffolds, or lift equipment.
- ◆ C. Ability to work in confined spaces
- ◆ D. Ability to lift, carry, and hold parts weighing up to 50 pounds to position them for welding.
- ◆ E. Ability to stand, walk, kneel, crouch, and stoop as needed perform work activities.
- ◆ F. Ability to attend work on a regular basis.

* Essential functions of the position

- ◆ Job requirements necessary the first day of employment

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CC: 20120227	Res: 12-0094R	EEOC: Skilled Craft	EEOF: Admin/Finance	WC: 5506